PTO/SB/21 (09-04)

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Application Number	10/709,529-Conf. #3528		
Filing Date	May 12, 2004		
First Named Inventor	Michael J. Nowlan		
Art Unit	N/A		
Examiner Name	Not Yet Assigned		
Attorney Docket Number	101430-0185		

Total Number of Pages in This Submiss	Jon	101430-0185			
EN	ICLOSURES (Check all that app	ply)			
Fee Transmittal Form	Drawing(s)	After Allowance Communication to TC			
Fee Attached	Licensing-related Papers	Appeal Communication to Board of Appeals and Interferences			
Amendment/Reply	Petition	Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)			
After Final	Petition to Convert to a Provisional Application	Proprietary Information			
Affidavits/declaration(s)	Power of Attorney, Revocation Change of Correspondence Address	Status Letter			
Extension of Time Request	Terminal Disclaimer	Other Enclosure(s) (please ldentify below):			
Express Abandonment Request	Request for Refund	IDS by Applicant (w/4 non-patent literature documents attached)			
x Information Disclosure Statement	CD, Number of CD(s)	Return Receipt Postcard			
Certified Copy of Priority Document(s)	Landscape Table on CD				
Reply to Missing Parts/ Incomplete Application	Remarks				
Reply to Missing Parts under 37 CFR 1.52 or 1.53					
	URE OF APPLICANT, ATTORNEY, OF	RAGENT			
Firm Name NUTTER MCCLENN	VEN & FISH LLP				
Signature					
	Thomas J. Engellenner				
Date	Reg. No.	28,711			
	Transmittal				

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2231 Dated: 27 October 2004 Signature: Signature:	13-1450, on the date shown below. (Thomas J. Engellenner)
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OCT Z 9 2004

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, XA 22318-1450, on the date shown below.

Signature: (Thomas J Engellenner)

Docket No.: 101430-0185

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Michael J. Nowlan et al.

Application No.: 10/709,529 Confirmation No.: 3528

Filed: May 12, 2004 Art Unit: N/A

For: INFRARED DETECTION OF SOLAR CELL Examiner: Not Yet Assigned

DEFECTS UNDER FORWARD BIAS

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

A copy of each non-patent reference on the PTO/SB/08 is attached.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

Application No.: 10/709,529 Docket No.: 101430-0185

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 141449, under Order No. 101430-0185.

By

Dated: 27 October 2004

Respectfully submitted,

Thomas J. Engellenner Registration No.: 28,711

NUTTER MCCLENNEN & FISH LLP

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1373658.1

PTO/SB/08a/b (08-03)

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Substitute for form 1449A/B/PTO

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

Complete if Known				
Application Number	10/709,529-Conf. #3528			
Filing Date	May 12, 2004			
First Named Inventor	ntor Michael J. Nowlan			
Art Unit	N/A			
Examiner Name	Not Yet Assigned			
Attorney Docket Number	101430-0185			

U.S. PATENT DOCUMENTS					
Examiner	Cite	Document Number Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	No.1	Number-Kind Code ² (if known)		Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
	AA	US-6,236,044-B1	05-22-2001	Chou, et al.	
	AB	US-6,420,705-B1	07-16-2002	Chou, et al.	
	AC	US-6,111,638	08-29-2000	Chou, et al.	
	AD	US-5,334,844	08-02-1994	Pollard, et al.	

FOREIGN PATENT DOCUMENTS						
Examiner	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	
Initials* No.1	Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Date MM-DD-YYYY	Applicant of Cited Desument	Where Relevant Passages or Relevant Figures Appear	4 I -	
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		NON PATENT LITERATURE DOCUMENTS	·
Examiner Cite Initials No.1		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	CA	Sawyer, et al., "Laser Scanning of Solar Cells for the Display of Cell Operating Characteristics and Detection of Cell Defects," IEEE, April 1980, Vol. ED-27, No. 4,	
	СВ	Pilla, et al., "Thermographic Inspection of Cracked Solar Cells," Proc. SPIE, March 2002, Vol. 4710, p. 699-703	
	CC	Paulson, et al., "Infrared techniques applied to large solar arrays," (1981), SPIE Vol. 304)	
	CD	Nowlan, et al., "Automated Solar Cell Assembly Teamed Process Research," National Renewable Energy Laboratory (NREL) (Feb. 1996)	

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner	Date	
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